



## Deep Learning in Image Processing and Computer Vision

Guest Editor:

**Dr. Duc Thanh Nguyen**

School of Info Technology,  
Deakin University, Geelong, VIC  
3220, Australia

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### Message from the Guest Editor

Deep learning has been widely applied in various research fields and played a crucial role in many applications. The successes and achievements of deep learning have been clearly demonstrated by the realisation of handwritten character recognition, image classification and retrieval, object detection and segmentation, action recognition, video analysis, and 3D scene understanding. Over the last decade, the research community has witnessed the rapid growth of deep learning, with many advanced architectures and learning algorithms having been developed and applied to solve complex and real-world problems.

This Special Issue aims to promote the field of deep learning with a focus on deep learning-based techniques for image processing and computer vision. Research areas may include (but are not limited to) the following topics:

- Image recognition;
- Object detection;
- Image and object segmentation;
- Action detection and recognition;
- Video analysis;
- 3D vision (scene understanding, point cloud analysis);
- Image and video synthesis;
- Image processing/computer vision-based applications (healthcare, robotics, environmental protection).





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**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

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Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
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